IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents **BOX PATENT APPLICATION** Washington, D.C. 20231

TRANSMITTAL FOR A NEWLY EXECUTED ORIGINAL APPLICATION UNDER 37 C.F.R. §1.53(b)

This is a request for filing a patent application under 37 C.F.R. §1.53(b) for:

Inventor(s): Shinji YOSHIDA

RECORDING MEDIUM REPRODUCTION APPARATUS For:

- This is a new [X] Utility [] Design [] Plant patent application. 1.
- 2. The papers enclosed to obtain a filing date are as follows:
 - Pages of Specification including <u>14</u>
 - Title Page
 - Pages of Claims
 - Page(s) of Abstract
 - Sheets of drawings containing 8 Figures
 - The enclosed drawing(s) are photograph(s), and there is also attached a [] PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)
- Combined Declaration and Power of Attorney 3.
 - Enclosed and is executed by all inventors. [X]
 - Not Enclosed.

This application is being filed under the provisions of 37 C.F.R. §1.53(f). Applicant(s) await notification from the Patent and Trademark Office of the time set for filing the Declaration and paying the filing fees.

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4.	Langu [X]	English Non-English This application of the MPEP. A	pplicant(s) await	notification from	37 C.F.R. §1.52(d) and §608.01 m the Patent and Trademark sh translation and the processing
5.	Assignment				
	[X]	An assignment of 1595, Recordation	f the invention to n Form Cover S	Funai Electric heet, are enclose	Co., Ltd. and a PTO Form-d.
	[]	An assignment w	ill be filed at a l	ater date.	
6.	Priority - foreign applications under 35 U.S.C. §119(a)-(d) or §365(b) or PCT international applications under 35 U.S.C. §365(a) designating at least one country other than the U.S. [X] Priority of the following foreign application(s) is claimed:				
		Country	Applica	tion No.	Filed
		Japan	11-18	3584	June 29, 1999
	Certifi	ed copy(ies): [X] i	is/are attached.	[] will follow	
7.	Priority	y based on provision	onal application((s) - 35 U.S.C. §1	119(e)
	[] Pric	ority of the followi	ng provisional a	pplication(s) is o	claimed:
		Application No.			Filed

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[]	Amend	I the specification I	by inserting before the first line the sentence:
	"This a	pplication claims	priority of copending provisional application(s)
	No	filed on	

8. Small entity status

- [] A statement claiming small entity status under 37 C.F.R. §§1.9 and 1.27 is enclosed.
- 9. Fee Calculation (37 C.F.R. §1.16)

CLAIMS FOR FEE CALCULATION					
	Number Filed	Number Extra	at Rate of	Basic Fee Utility \$690.00 Design \$310.00	
Total Claims (37 C.F.R. §1.16(c))	5 - 20 =	0	\$ 18.00 each=	\$0.00	
Independent Claims (37 C.F.R. §1.16(b))	2 - 3 =	0	\$ 78.00 each=	\$0.00	
Multiple dependent claim(s), if any (37 C.F.R. §1.16(d)) \$260.00				+	
	\$690.00				
	- \$				
	\$690.00				

10. Fee Payment

[] Not Enclosed. NO FEE IS BEING PAID BY CHECK OR DEPOSIT ACCOUNT AT THIS TIME.

This application is being filed under the provisions of 37 C.F.R. §1.53(f). Applicant(s) await notification from the Patent and Trademark Office of the time set for filing the Declaration and paying the filing fees.

- [X] Enclosed.

 Two check(s) in the amounts of \$\frac{690.00}{200}\$ and \$\frac{40.00}{200}\$ representing the filing fee of \$\frac{690.00}{200}\$ and an assignment recording fee of \$\frac{40.00}{200}\$ are enclosed.
- 11. [X] Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. §1.136(a)(3).
- 12. Additional papers enclosed:

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- [X] Information Disclosure Statement
- [X] Form PTO-1449, 1 document listed thereon
- [] Declaration of Biological Deposit
- [] Submission of "Sequence Listing", computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

Please accord this application an application number and filing date.

Respectfully submitted,

MORGĄN, LEWIS & BOCKIUS LLP

J. Michael Thesz

Reg. No. 40,354

Dated: June 27, 2000

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RECORDING MEDIUM REPRODUCTION APPARATUS

BACKGROUND OF THE INVENTION

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The present invention relates to recording medium reproduction apparatus and more particularly to a recording medium reproduction apparatus characterized in that a skip reproduction over a designated section can be done according to the contents therein.

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A still image reproduction apparatus proposed in Japanese Patent Publication No. 3-248370A aims to solve the problem of unnaturalness arising from gaining access to one recorded image that one would not like any other person to watch when a plurality of recorded still images on a tape-type recording medium reproduction medium are sequentially reproduced.

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DVD (Digital Versatile Disk) players are equipped with parental locks for restricting the reproduction of scenes such as violence or sex scenes (hereinafter called adult scenes) contained in the contents and considered as those badly affecting the sound growth of infants and minors.

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In that case, the control level based on the prescribed ethical standard is pre-recorded on the disk corresponding to the parental lock function by matching each scene in the contents to the ethical standard.

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While the parental lock function is kept effective after the reproduction level based on the control level is set to the DVD player, only a scene wherein the control level recorded on the disk conforms to the reproduction level is reproduced when the disk is played, and any other scene is skipped. In place of the skip reproduction, an alternative scene may be reproduced by replacing any

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scene to be skipped with the alternative one beforehand.

More specifically, infants and minors are allowed to enjoy sound and images included in the contents at parent's ease because the use of the parental lock function makes it possible to skip any adult scene on the basis of the control level added by the contents supplier without any specific operation on the part of user.

However, the parental lock function of the DVD player will not be performable in a case where the control level is not recorded in the contents for reasons of the contents supplier's own such as cost restrictions.

Under the circumstances, parents of children are compelled to do a skip reproduction as specified when the children want to watch and hear the contents by examining the contents from beginning to end and specifying scenes to be skipped.

Therefore, the demand is for a contrivance to be developed for relieving those parents of the operational burden.

SUMMARY OF THE INVENTION

An object of the present invention made in the above circumstances is to provide a recording medium reproduction apparatus capable of an automatic skip reproduction over predetermined sections of contents without a pre-recorded control level.

In order to achieve the above object, according to the present invention, there is provided an apparatus for reproducing contents recorded on a recording medium exchangeably loaded therein in a predetermined order and for

reproducing the same skippingly regardless the predetermined order, the apparatus comprising:

a diskriminator for diskriminating the contents of the loaded recording medium;

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a registration controller for accepting skipped section information including a start point and a termination point of a section to be reproduced skippingly and for associating the skipped section information with the diskriminated contents:

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a point table for storing a plurality of the skipped section information

associated with the respective contents; and

a reproduction controller for reading out at least one of the skipped section information stored in the point table in accordance with the diskriminated contents, and for skippingly reproducing the contents in accordance with the read

out skipped section information.

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Even in the case of contents without a pre-recorded control level, sections to be subjected to skip reproduction are be registered beforehand according to the invention, whereby the skip reproduction can be done automatically over the sections.

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Preferably, the diskriminator diskriminates the contents of the loaded recording medium based on diskrimination information recorded on the loaded recording medium.

Since the disk is identified according to the identifying data recorded on the disk of the second invention, the processing burden can be decreased.

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According to the present invention, there is also provided a method for skippingly reproducing contents recorded on a recording medium exchangeably

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loaded in an reproduction apparatus, comprising the steps of:

diskriminating the contents of the loaded recording medium;

accepting skipped section information including a start point and a termination point of a section to be reproduced skippingly;

registering the accepted skipped section information in a point table while associating with the diskriminated contents:

reading out the skipped section information registered in the point table in accordance with the diskriminated contents; and

skippingly reproducing the contents in accordance with the read out skipped section information.

Preferably, a plurality of the skipped section information associated with the respective contents are registered in the point table. Then at least one of the skipped section information is selected in accordance with the diskriminated contents to be skippingly reproduced.

Preferably, the contents of the loaded recording medium is diskriminated based on diskrimination information recorded on the loaded recording medium.

BRIEF DESCRIPTION OF THE DRAWINGS

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In the accompanying drawings:

Fig. 1 is a block diagram showing a schematic configuration of a recording medium reproduction apparatus according to one embodiment of the invention;

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Figs. 2 and 3 are flowcharts showing a procedure for registering a

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section to be skipped;

Fig. 4 is a flowchart showing a procedure for setting a personal identification number;

Figs. 5 and 6 are flowcharts showing a procedure for performing a skip point editing;

Fig. 7 is a flowchart showing a procedure for performing a skip reproduction; and

Fig. 8 is a table showing one example of a skip point table.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 is a block diagram of a recording medium reproduction apparatus illustrating a signal processing system of a DVD player according to the invention. Reference numeral 1 denotes CPU and to the CPU 1, a servo controller 2 for driving and controlling a servo system including a spindle motor, a feed motor and so on, a memory 3 for dealing with the registration of control sections to be subjected to skip reproduction, and an interface circuit 4 for operating the registration of control sections are connected.

Further, the CPU 1 is fed with data (hereinafter called "disk data") for use in identifying a disk; the disk data, for example, BCA data, the total reproduction time and the like are read out by a pickup system.

In addition, the CPU 1 supplies control parameters for designating dubbed audio and subtitles to be reproduced to the signal processing system for streams of processing audio, subpicture and MPEG (Moving Picture Experts Group) video.

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The memory 3 is provided with a skip point table 3a for storing the starting and termination points of sections to be subjected to skip reproduction corresponding a plurality of contents.

Fig. 8 shows an example of the skip point table. More specifically, the skip point table is used for storing DISK # as data for identifying disks on a content basis, POINT # indicative of the starting and termination points of predetermined sections to be subjected to skip reproductions, and the number of points indicative of the total number of sections to be subjected to skip reproductions, these corresponding to one another. The skip reproduction is automatically done according to the skip point table as described later.

The interface circuit 4 is connected to an operation button 5 and translates into a command the signal given by the operation key 5 and sends the command to the CPU 1.

The operation key 5 is constituted of a PLAY key 5a, a USER LOCK key 5b, a POINT key 5c and an UP/DOWN key 5d. The PLAY key 5a corresponds to the command to start the reproduction, the USER LOCK key 5b to register a section to be subjected to skip reproduction, the POINT key 5c to designate the starting and termination points of the section, and the UP/DOWN key 5d to edit the skip point table.

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Figs. 2 and 3 are flowcharts showing procedures for registering a user lock section to be skipped in the recording medium reproduction apparatus. A process is started by depressing the USER LOCK key 5b and it is checked whether or not depressed time period is within a predetermined range of time, for example, not longer than two seconds (Step S2). If the depressed time period is within the predetermined range of time, whether or not a personal identification

number has been set is checked (Step S4). If the personal identification number has not been set up yet, a process for setting the personal identification number is performed (Step S6), which will be described later. Then Step S4 is followed again and steps after this are repeated.

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If the set-up personal identification number is found at Step S4, personal identification number input is requested so as to authenticate an operator from the personal identification number input (Step S8). When the operator is authenticated, it is checked whether each disk is the one registered in the skip point table 3a according to the disk data on the disk loaded, for example, the BCA data and the total reproduction time (Step S10). If the disk is found unregistered, a new record is selected as an edited object and DISK # is registered (Step S12) in order to start playing this disk (Step S14).

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If the disk is found registered in the skip point table 3a at Step S10, a record corresponding to the DISK # identified as an edited object is selected (Step S16) in order to start playing the disk (Step S14).

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During the playing of the disk, whether or not the POINT key 5c has been depressed is checked (Step S18). If the POINT key 5c has not been depressed yet, this action is repeated. When the POINT key 5c is depressed, a POINT # of the start point is registered in the record as the edited object (Step S20).

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Whether or not the POINT key 5c has been depressed thereafter is checked (Step S22), and if it has not been depressed yet, this action is repeated. When the POINT key 5c is depressed, a POINT # of the termination point is registered in the record as the edited object (Step S24). Then the total number of the skip point is incremented and the result is registered in the record (Step

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S26).

Further, whether or not the remaining reproduction time comes up to zero is checked (Step S28), and if it is not zero, Step S18 is followed again and steps after this are repeated. If the remaining reproduction time is found to be zero at Step S28, the reproduction is terminated (Step S30) and a user lock function is used to set the reproduction operation (Step S32) before the process is terminated.

If it is determined that the depressed time period of the USER LOCK key 5b has exceeded the predetermined time at Step S3, a skip point editing, which will be described later, is performed and the process is terminated then.

Fig. 4 is a flowchart showing a procedure for setting personal identification number to the recording medium reproduction apparatus. A personal identification number input screen is displayed (Step S42) and then personal identification number input with a predetermined number of digits is accepted (Step S44). Whether or not the USER LOCK key 5b has been depressed is checked (Step S46) and if it has not been depressed yet, Step S44 is followed again and steps after this are repeated.

If it is determined that the USER LOCK key 5b has been depressed at Step S46, the personal identification number is registered (Step S48) and the process is terminated after the personal identification number input screen is erased (Step S50).

Figs. 5 and 6 are flowcharts showing procedures for performing a skip point editing in the recording medium reproduction apparatus. A process is started by checking whether or not the personal identification number has been set (Step S52). If the personal identification number has not been set yet, the

aforementioned process of setting the personal identification number is performed (Step S54) and then Step S52 is followed again and steps after this are repeated.

If the set-up personal identification number is found at Step S52, personal identification number input is requested so as to authenticate an operator from the personal identification number input (Step S56). When the operator is authenticated, it is checked whether each disk is the one registered in the skip point table 3a according to the disk data on the disk loaded, for example, the BCA data and the total reproduction time (Step S58). If the disk is found unregistered, the whole registered data is displayed on the screen as an object to be edited (Step S60). Then it is checked whether disk information of the loaded disk has been made the edited object (Step S62). When such a change is made, the disk information is displayed on the screen as the edited object (Step S64). If the disk is otherwise found registered in the skip point table 3a at Step S58, Step S64 is followed and steps after this are repeated.

Further, it is checked whether the edited object has been made the POINT # (Step S66) and when such a change is made, the POINT # is regarded as an edited object (Step S68). If the disk information of the loaded disk has not been made the edited object at Step S62, or if the POINT # has not been made the edited object at Step S66, or if lock cancel operation is accepted after processing at Step S68, the registration of the edited object is canceled (Step S72). It is checked whether the termination of the skip point editing has been instructed and if it has not been so instructed, Step S58 is followed again and steps after this are repeated. If it is determined that the termination of the skip point editing has been instructed at Step S74, the whole process is terminated.

Moreover, the whole process is also terminated when the operator is not authenticated Step S56.

Fig. 7 is a flowchart showing procedure for performing the skip reproduction in the recording medium reproduction apparatus.

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It is checked whether or not a reproduction using the user lock function has been set (Step S82) and if it has been set, it is checked whether each disk is the one registered in the skip point table 3a according to the disk data on the disk loaded, for example, the BCA data and the total reproduction time (Step S84). If the disk is otherwise found registered, POINT # is read out and set in the work area of the memory 3 (Step S86). The reproduction is also started by using the user lock function (Step S88). In other words, the skip reproduction is carried out when a reproduction point approaches the section defined by the POINT #.

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It is checked whether or not the remaining reproduction time is zero (Step S90) and if it is not zero, this action is repeated. If the remaining time is found zero at Step S90, the reproduction operation is terminated (Step S92) and so is the whole process.

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If the use of the user lock function is found unset for the reproduction purpose at Step S82 or if the disk is found unregistered in the skip point table 3a at Step S84, the normal reproduction operation is started (Step S94). Further, it is checked whether or not the remaining time is zero (Step S96) and if it is not zero, this action is repeated. If the remaining time is found zero at Step S90, the reproduction operation is terminated (Step S92) and so is the whole process.

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As has been described heretofore, according to the present invention, since the skip reproduction is done according to the starting and termination points of the sections pre-recorded in the skip point table, superior effects are

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achievable thereby in that skip reproduction can be done over the predetermined sections of the contents without the pre-recorded control level.

Moreover, since the contents of the recording medium is identified according to the identifying data recorded on the recording medium, superior effects are also achievable thereby in that the processing burden can be lightened.

Although the present invention has been shown and described with reference to specific preferred embodiments, various changes and modifications will be apparent to those skilled in the art from the teachings herein. Such changes and modifications as are obvious are deemed to come within the spirit, scope and contemplation of the invention as defined in the appended claims.

WHAT IS CLAIMED IS:

1	1.	An apparatus for reproducing contents recorded on a recording medium
2	exchan	geably loaded therein in a predetermined order and for reproducing the
3	same sl	kippingly regardless the predetermined order, the apparatus comprising:
4		a diskriminator for diskriminating the contents of the loaded recording

a diskriminator for diskriminating the contents of the loaded recording medium;

a registration controller for accepting skipped section information including a start point and a termination point of a section to be reproduced skippingly and for associating the skipped section information with the diskriminated contents;

a point table for storing a plurality of the skipped section information associated with the respective contents; and

a reproduction controller for reading out at least one of the skipped section information stored in the point table in accordance with the diskriminated contents, and for skippingly reproducing the contents in accordance with the read out skipped section information.

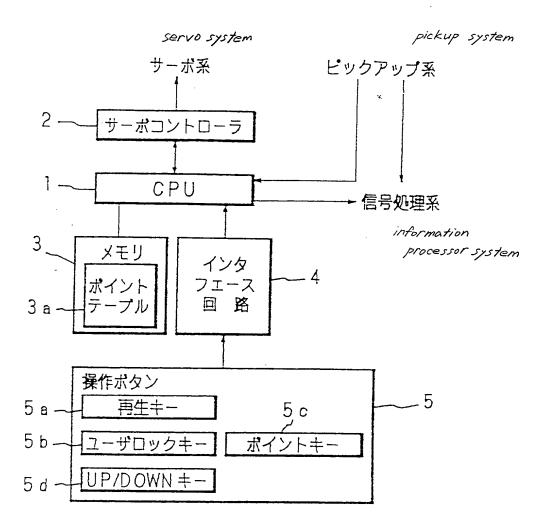
- 2. The reproduction apparatus as set forth in claim 1, wherein the diskriminator diskriminates the contents of the loaded recording medium based on diskrimination information recorded on the loaded recording medium.
- 3. A method for skippingly reproducing contents recorded on a recording medium exchangeably loaded in an reproduction apparatus, comprising the steps of:

4	diskriminating the contents of the loaded recording medium;
5	accepting skipped section information including a start point and a
6	termination point of a section to be reproduced skippingly;
7	registering the accepted skipped section information in a point table
8	while associating with the diskriminated contents;
9	reading out the skipped section information registered in the point table
0	in accordance with the diskriminated contents; and
1	skippingly reproducing the contents in accordance with the read out
2	skipped section information.
1	4. The reproduction method as set forth in claim 3, wherein a plurality of
2	the skipped section information associated with the respective contents are
3	registered in the point table; and
4	wherein at least one of the skipped section information is selected in
5	accordance with the diskriminated contents to be skippingly reproduced.
1	5. The reproduction method as set forth in claim 3, wherein the contents of
2	the loaded recording medium is diskriminated based on diskrimination information
3	recorded on the loaded recording medium.

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ABSTRACT OF THE DISCLOSURE

It is checked whether a reproduction using a user lock function has been set (Step S82) and if it has been set, it is checked whether each disk is the one registered in a skip point table 3a according to disk data on the disk loaded, for example, BCA data and the total reproduction time (Step S84). If the disk is otherwise found registered, POINT # is read out and set in the work area of memory 3 (Step S86). The reproduction is also started by using the user lock function (Step S88). In other words, the skip reproduction is carried out when a reproduction point approaches the section defined by the POINT #. It is checked whether or not the remaining reproduction time is zero (Step S90) and if it is not zero, this action is repeated. If the remaining time is found zero at Step S90, the reproduction operation is terminated (Step S92) and so is the whole process.



2: servo controller

3: memory

3a: skip point table

4: interface circuit

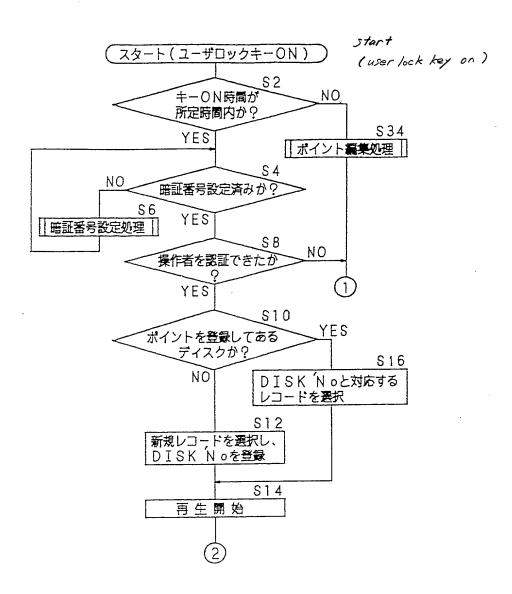
5: operation keys

5a: PLAY key

5b: USER LOCK key

5c: POINT key

5d: UP/DOWN key



S2: depressed time period is within predetermined value?

S4: identification number has been set?

S6: identification number setting process

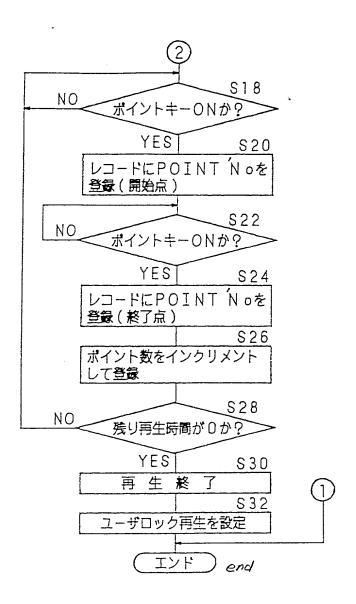
S8: operator is authenticated?

S10: DISK # has been registered?

S16: select record associated with DISK#

S12: register DISK # as new record

S14: start reproduction



S18: POINT key is ON?

S20: register POINT # as start point record

S22: POINT key is ON?

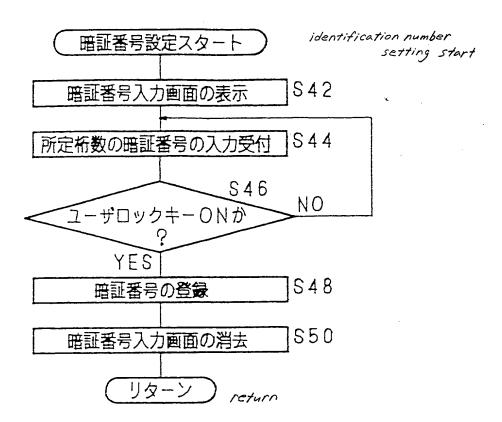
S24: register POINT # as termination point record

S26: increment total number of skip point

S28: remaining reproduction time is zero?

S30: terminate reproduction

S32: establish user lock reproduction



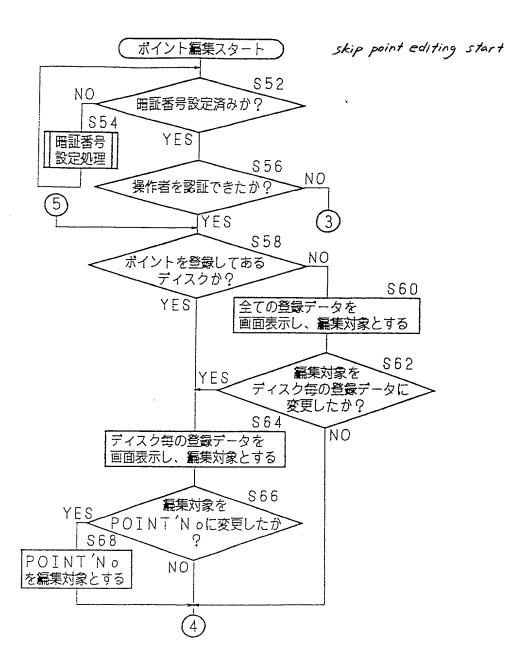
S42: display screen for identification number input

S44: accept identification number with predetermined number of digit

S46: USER LOCK key is ON?

S48: register identification number

S50: erase screen for identification number input



S52: identification number has been set?

S54: identification number setting process

S56: operator is authenticated?

S58: DISK # has been registered?

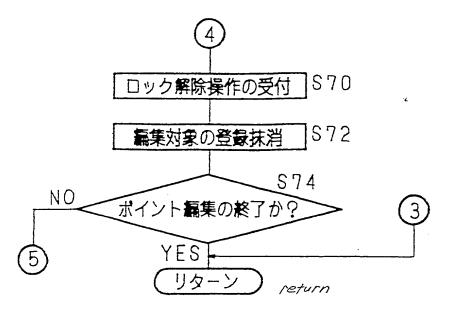
S60: display all registered data as object to be edited

S62: loaded disk information is made edited object?

S64: display loaded disk information as edited object

S66: edited object is changed into POINT #?

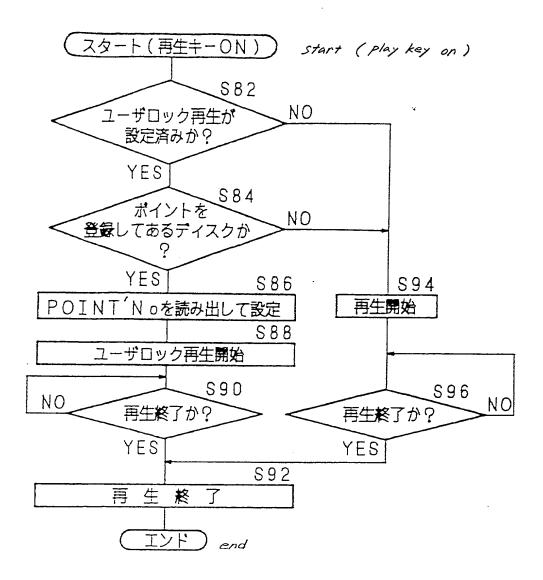
S68: POINT # is made edited object



S70: accept lock cancel operation

S72: cancel registration of edited object

S74: skip point editing is terminated?



S82: user lock reproduction has been established?

S84: POINT # has been registered?

S86: read out POINT #

S88: start user lock reproductionS90: reproduction is terminated?

S92: terminate reproduction

S94: start normal reproduction

S96: reproduction is terminated?

disk #	title #	chapter # Point #	total number of skip point
DISK 'No	POIN タイトル 'No	NT No	ポイント数
1	1	1 A-A' 2 A-A' 4 A-A', B-B'	4
2	1	1 A-A' 3 A-A', B-B' 5 A-A', B-B'	5
3	1	2 A-A', B-B' C-C'	3
4	1	2 A-A' 4 A-A', B-B' 8 A-A'	4
. 5	1	6 A-A	1
6	1	1 A-A', B-B' C-C', D-D'	4

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

		ATTORNEY DO	CKET NO.:
As a below named inventor, I her	eby declare that:		
My residence, post office address	and citizenship are as stated below	next to my name,	
	nd sole inventor (if only one name is atter which is claimed and for which		
RECORDING MED	IUM REPRODUCTION APPARAT	US	
the specification of which:			
is attached hereto; or			. :
was filed as United States applica	tion Serial No on	and was amended on	(if applicable); or
Thereby state that I have reviewed any amendment referred to above. I acknowledge the duty to disclose presented in this application in accordance in the property of the pro	and understand the contents of the to the U.S. Patent and Trademark Cordance with Title 37, Code of Federation and Trademark Contents under Title 35, United States Confany PCT international application	above-identified specification, incomplete information which is materized Regulations, §1.56. Code, §119(a)-(d) or §365(b) of an	cluding the claims, as amended by ial to the patentability of claims by foreign application(s) for patent try other than the United States of certificate or any PCT international
	PRIOR FOREIGN A	APPLICATION(S):	
COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
Japan	P. Hei. 11-183584	29/June/1999	[X] Yes [] No
•			[] Yes [] No
			[]Yes []No
	1		I I Vac I I No

Combi (includ	ined Declaration For Patent A les Reference to PCT Internat	pplication and Power of Attornional Applications)		ORNEY DOCKET N	0.:
	I hereby claim the benefits listed below.	under Title 35, United States C	Code §119(e) of any Uni	ted States provisional	application(s)
		U.S. PROVISION	NAL APPLICATIONS		
	U.S. PROVISIONAL AP	PLICATION NO.		U.S. FILING DATE	3
	PCT international applicati subject matter of each of the provided by the first parage Patent and Trademark Office application in accordance versions.	ander Title 35, United States Coon(s) designating the United States of this application is raph of Title 35, United States of the all information known to movith Title 37, Code of Federal In(s) and the national or PCT into	tates of America that is/a not disclosed in that/thos Code, §112, I acknowled to to be material to the pa Regulations, §1.56 which ternational filing date of	are listed below and, in the prior application(s) in lige the duty to disclose tentability of claims per the became available bet	nsofar as the in the manner e to the U.S. resented in this
	PRIOR U.S. APPLICATI	ONS OR PCT INTERNATIO		DESIGNATING TH	HE U.S. FOR BENEFIT:
	U.S. APPLICA	TIONS	<u></u>	STATUS (Check One	e).
U.	S. APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
Toposes			·		
Part of the control o					
POWER OF ATTORNEY: As a named inventor, I hereby appoint the registered practitioners of Morgan, Lewis & Bockius LLP included in the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number.					
	Customer Number: 0096	29		·	
	Telephone Calls To: and telephone number)				
	,		hael Thesz 467-7658		

Combined Declaration For Patent Application and Power of Attorney - (Continued) (includes Reference to PCT International Applications) ATTORNEY DOCKET NO.:				
believed to be true; and furth punishable by fine or impriso	ements made herein of my own knowledge are true and that all statements made of her that these statements were made with the knowledge that willful false stateme comment, or both, under Section 1001 of Title 18 of the United States Code, and the he validity of the application or any patent issuing thereon.	nts and the like so made are		
FULL NAME OF SOLE OR FIRST INVENTOR	Shinji YOSHIDA			
RESIDENCE & CITIZENSHIP	Osaka, Japan	COUNTRY OF CITIZENSHIP		
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FULL NAME OF SECOND INVENTOR				
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POST OFFICE ADDRESS				
SECOND INVENTOR'S SIG	GNATURE	DATE		
HULL NAME OF THIRD INVENTOR				
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THIRD INVENTOR'S SIGN	JATTIRE	DATE		

Listing of Inventors Continued on attached page(s) [] Yes [X] No